

**IN THE CLAIMS:**

*This listing of claims will replace all prior versions and listings of claims in the application.*

**Listing of Claims:**

1. (Currently Amended) A magnetic element comprising:

~~a sintered body of magnetic ferrite made by firing mixed powder having iron oxide, cobalt oxide and zinc oxide as the main ingredients;~~

~~a conducting coil formed on the sintered body;~~

~~an insulating material covering at least the conducting coil; and~~

~~a plurality of external electrodes connected to the conducting coil.~~

a rod-shaped sintered insulator of magnetic ferrite;

a conducting coil formed around the sintered insulator;

two external electrodes connected to the conducting coil,

wherein the insulator is made by firing mixed powder, main ingredients of the mixed powder including:

41 to 50 mol % of iron oxide when converted to  $\text{Fe}_2\text{O}_3$ ;

3 to 16 mol % of zinc oxide when converted to  $\text{ZnO}$ ; and

cobalt oxide.

Claims 2-3

(Cancelled)

4.(Currently Amended) ~~The magnetic element of claim 1, wherein~~

~~the sintered body is a magnetic insulator,~~

~~the conducting coil is provided in a meander shape or a spiral shape inside the magnetic insulator, and~~

~~the magnetic element is used as an impedance element.~~

An impedance element comprising:

a sintered insulator of magnetic ferrite;

a conducting coil provided in a meander shape or a spiral shape inside the magnetic insulator; and

two external electrodes connected to the conducting coil,

wherein the insulator is made by firing mixed powder, main ingredients of the mixed powder including:

41 to 50 mol % of iron oxide when converted to  $\text{Fe}_2\text{O}_3$ ;

3 to 16 mol % of zinc oxide when converted to  $\text{ZnO}$ ; and

cobalt oxide.

5. (Currently Amended) ~~The magnetic element of claim 1, wherein~~

~~the sintered body is a ring-shaped core,~~

~~the conducting coil is two coils wound in the same direction around the ring-shaped core,~~  
and

~~the magnetic element has four of the external electrodes connected to the two conducting coils and is used as a common-mode noise filter.~~

A common-mode noise filter comprising:

a ring-shaped core made of sintered magnetic ferrite;

two conducting coils wound in the same direction around the core; and

four external electrodes connected to the coils,

wherein the core is made by firing mixed powder, main ingredients of the mixed powder including:

41 to 50 mol % of iron oxide when converted to  $\text{Fe}_2\text{O}_3$ ;

3 to 16 mol % of zinc oxide when converted to  $\text{ZnO}$ ; and

cobalt oxide.

6. (Currently Amended) ~~The magnetic element of claim 1, wherein~~

~~the sintered body is a cylindrical core,~~

~~the conducting coil is spirally wound around the cylindrical core, and~~

~~the magnetic element is used as an antenna element.~~

An antenna element comprising:

a cylindrical core made of sintered magnetic ferrite;

a conducting coil spirally wound around the cylindrical core; and

a threaded connecting section on one end of the core,

wherein the core is made by firing mixed powder, main ingredients of the mixed powder including:

41 to 50 mol % of iron oxide when converted to  $\text{Fe}_2\text{O}_3$ ;

3 to 16 mol % of zinc oxide when converted to  $\text{ZnO}$ ; and

cobalt oxide.

*Claim 7*

*(Cancelled)*